

What is claimed is :

1. A portable electrical device with wireless transmission function comprising:

a host case, having a motherboard therein; and

5 a display module, pivotally connected with said host case, having a housing for containing a display panel and a planar antenna assembled therein, wherein said planar antenna is connected to said motherboard via a transmitting line.

10 2. The portable electrical device according to Claim 1, wherein said planar antenna is fabricated on a top edge of said display panel and made of a circuit board, and said planar antenna has antenna patterns defined on the peripheral area thereof.

15 3. The portable electrical device according to Claim 2, wherein said planar antenna has a width of 1.0~1.4 cm.

4. The portable electrical device according to Claim 1, wherein said transmitting line is made of a Universal Serial Bus (USB) line.

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5. The portable electrical device according to Claim 1, wherein said transmitting line is chosen from the group consisting of USB1.1, USB2.0, and IEEE 1394 transmitting lines.

25 6. The portable electrical device according to Claim 1, wherein said

portable electrical device is a notebook.

7. The portable electrical device according to Claim 1, wherein said planar antenna is fabricated on the rear side of said display panel and is
5 contained in the space between said display panel and said housing.

8. The portable electrical device according to Claim 1, wherein said planar antenna is fabricated on an edge side of said display panel and is contained in the space between said display panel and said housing.
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9. A portable electrical device being capable of wireless transmitting data, said portable electrical device comprising:
a display panel, fabricated in a panel housing;
a planar antenna, assembled in said panel housing and standing
15 upright on the top edge of said display panel, wherein said planar antenna includes antenna patterns defined on the peripheral area of a circuit board; and
a transmitting line, assembled in said panel housing, for connecting said planar antenna and a motherboard of said portable electrical device.
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10. The portable electrical device according to Claim 9, wherein said transmitting line is a USB line.

11. The portable electrical device according to Claim 9, wherein said
25 transmitting line is chosen from the group consisting of USB1.1, USB2.0,

and IEEE 1394 transmitting lines.

12. A notebook being capable of wireless transmitting data, said notebook comprising:

5 a display panel, assembled in a panel housing, wherein between the top edge of said display panel and the top edge of said panel housing a space with a height less than 1.5 cm is reserved;

10 a planar antenna, formed of a circuit board with a width of 1.0~1.4 cm, wherein said planar antenna is assembled to stand upright on the top edge of said display panel and is contained in said space between said display panel and said panel housing, and said planar antenna includes antenna patterns defined on the peripheral area of said circuit board and a decoding circuit fabricated on the central area of said circuit board; and

15 a transmitting line, assembled in said panel housing, for connecting said planar antenna and a motherboard of said notebook.